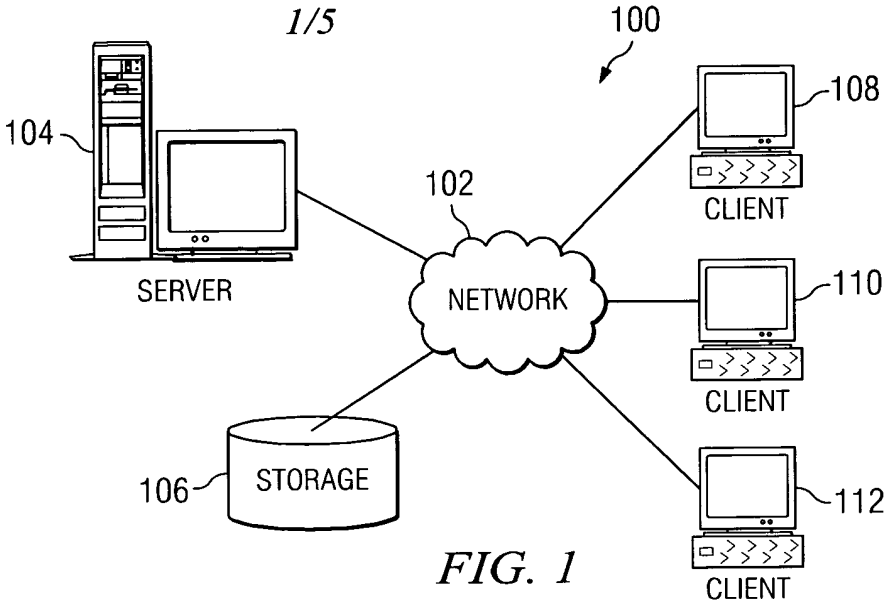
100
104
SERVER
102
NETWORK
108
CLIENT
110
CLIENT
112
CLIENT
106
STORAGE

FIG. 1

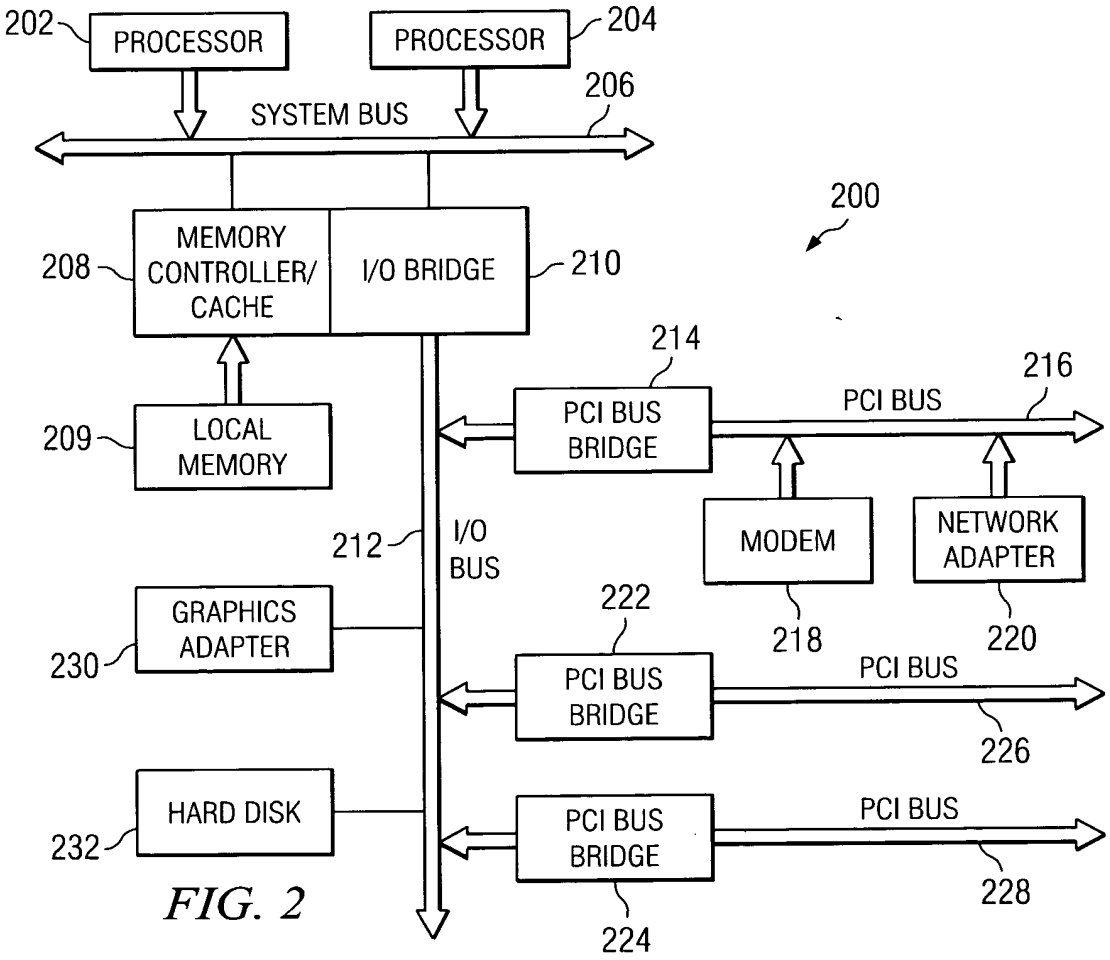
202
PROCESSOR
PROCESSOR
204
206
SYSTEM BUS
200
208
MEMORY CONTROLLER/ CACHE
I/O BRIDGE
210
214
216
PCI BUS
PCI BUS BRIDGE
209
LOCAL MEMORY
212
I/O BUS
MODEM
NETWORK ADAPTER
218
220
222
GRAPHICS ADAPTER
230
PCI BUS BRIDGE
PCI BUS
226
HARD DISK
232
PCI BUS BRIDGE
PCI BUS
228
224

FIG. 2

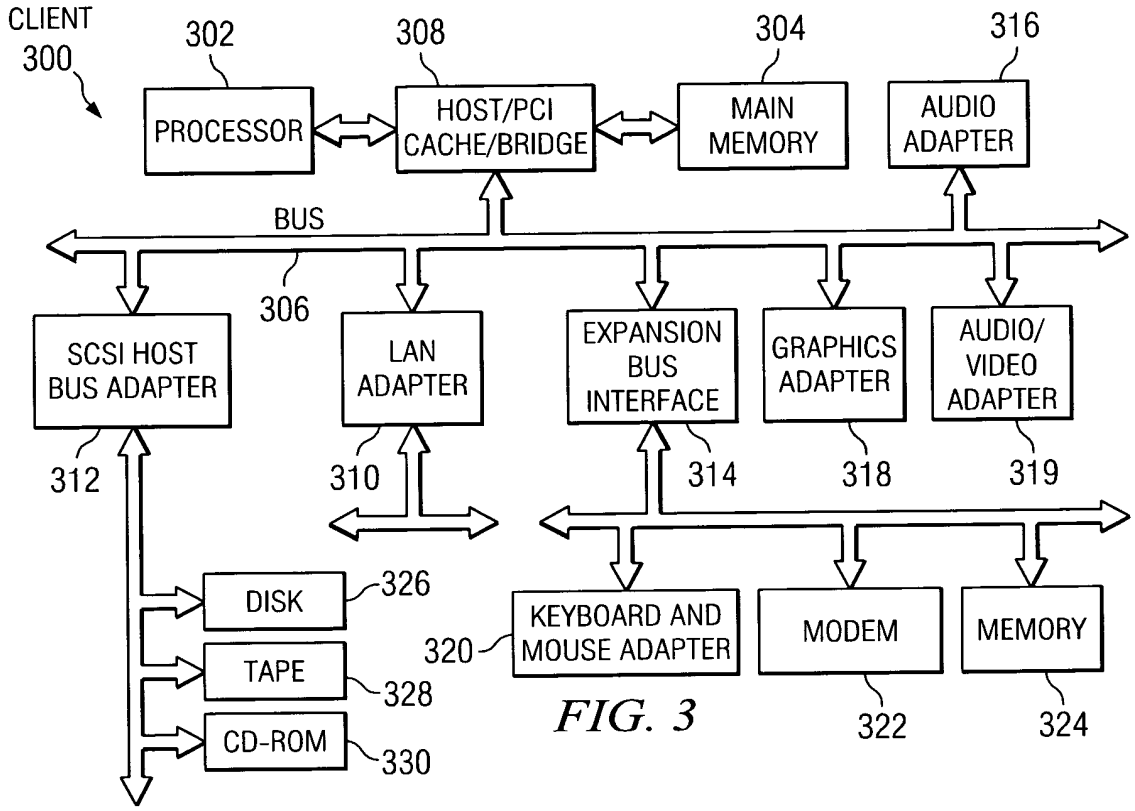
CLIENT
300
302
308
304
316
PROCESSOR
HOST/PCI CACHE/BRIDGE
MAIN MEMORY
AUDIO ADAPTER
BUS
306
SCSI HOST BUS ADAPTER
LAN ADAPTER
EXPANSION BUS INTERFACE
GRAPHICS ADAPTER
AUDIO/ VIDEO ADAPTER
312
310
314
318
319
DISK
326
TAPE
328
CD-ROM
330
320
KEYBOARD AND MOUSE ADAPTER
MODEM
MEMORY
322
324

FIG. 3

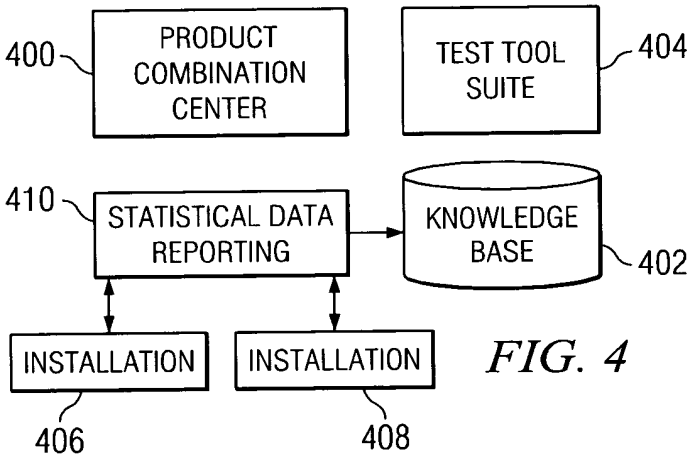
400
PRODUCT COMBINATION CENTER
TEST TOOL SUITE
404
410
STATISTICAL DATA REPORTING
KNOWLEDGE BASE
402
INSTALLATION
INSTALLATION
406
408

FIG. 4

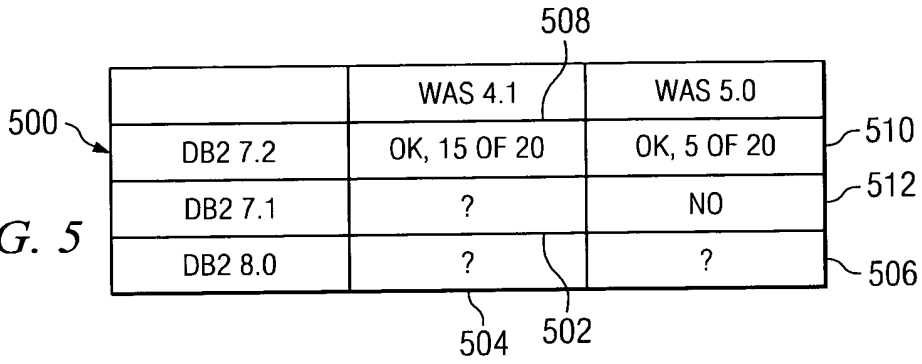
508
500
WAS 4.1
WAS 5.0
DB2 7.2
OK, 15 OF 20
OK, 5 OF 20
510
DB2 7.1
?
NO
512
DB2 8.0
?
?
506
504
502

FIG. 5

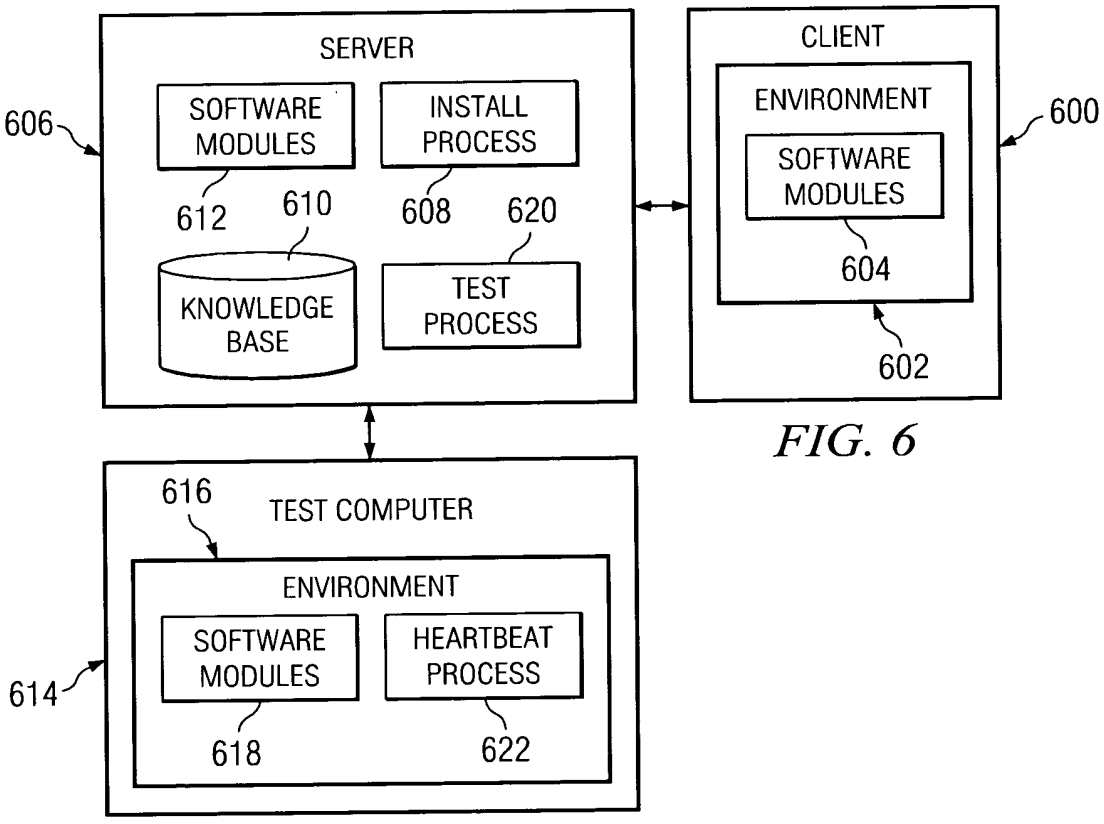
SERVER
606
SOFTWARE MODULES
INSTALL PROCESS
612
610
608
620
KNOWLEDGE BASE
TEST PROCESS
CLIENT
ENVIRONMENT
SOFTWARE MODULES
604
602
600
TEST COMPUTER
616
ENVIRONMENT
SOFTWARE MODULES
HEARTBEAT PROCESS
614
618
622

FIG. 6

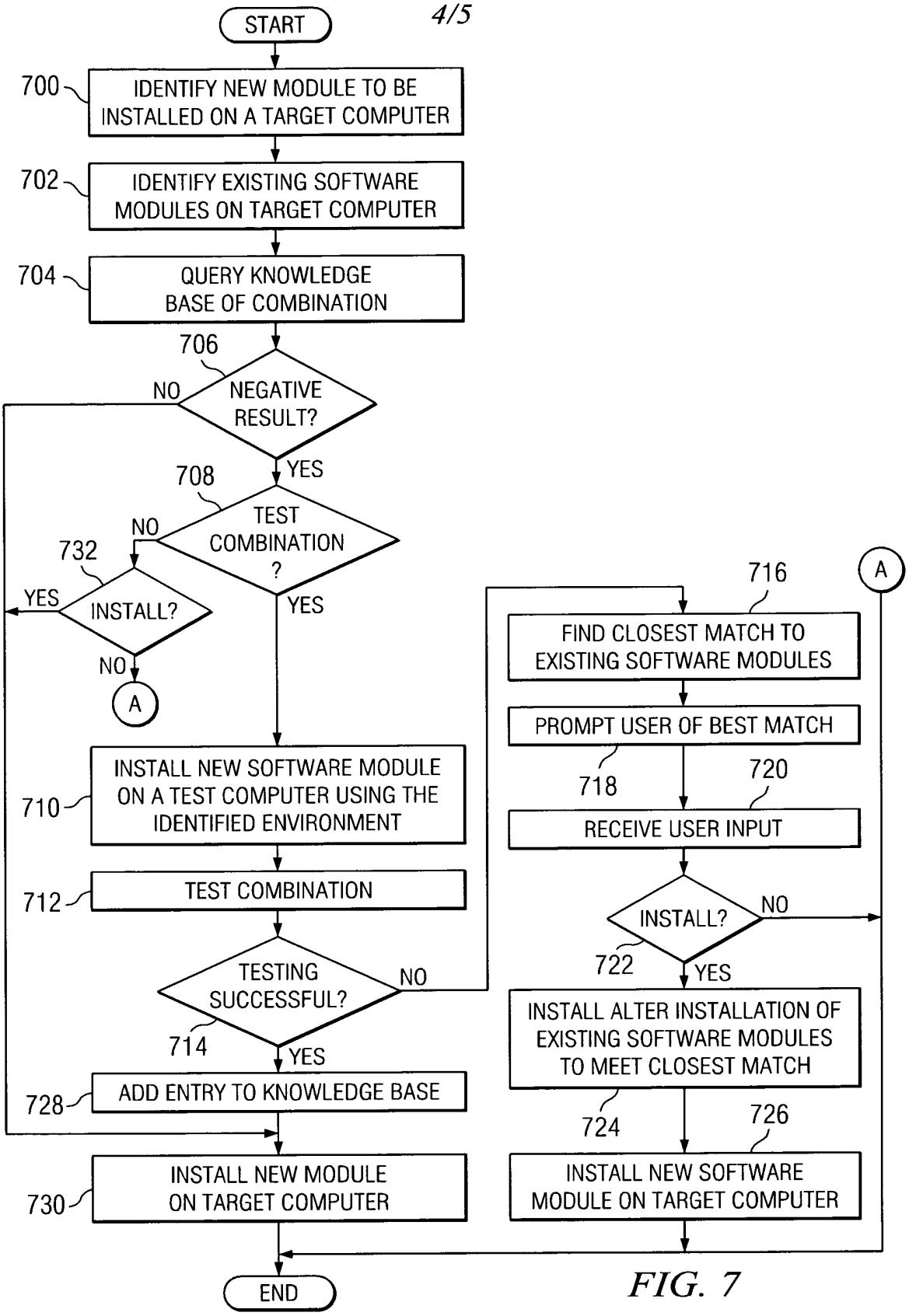
START
700
IDENTIFY NEW MODULE TO BE INSTALLED ON A TARGET COMPUTER
702
IDENTIFY EXISTING SOFTWARE MODULES ON TARGET COMPUTER
704
QUERY KNOWLEDGE BASE OF COMBINATION
706
NEGATIVE RESULT?
NO
YES
708
TEST COMBINATION ?
NO
YES
732
INSTALL?
YES
NO
A
710
INSTALL NEW SOFTWARE MODULE ON A TEST COMPUTER USING THE IDENTIFIED ENVIRONMENT
712
TEST COMBINATION
TESTING SUCCESSFUL?
NO
714
YES
728
ADD ENTRY TO KNOWLEDGE BASE
730
INSTALL NEW MODULE ON TARGET COMPUTER
END
716
FIND CLOSEST MATCH TO EXISTING SOFTWARE MODULES
PROMPT USER OF BEST MATCH
718
720
RECEIVE USER INPUT
INSTALL?
NO
722
YES
INSTALL ALTER INSTALLATION OF EXISTING SOFTWARE MODULES TO MEET CLOSEST MATCH
724
726
INSTALL NEW SOFTWARE MODULE ON TARGET COMPUTER
A

FIG. 7

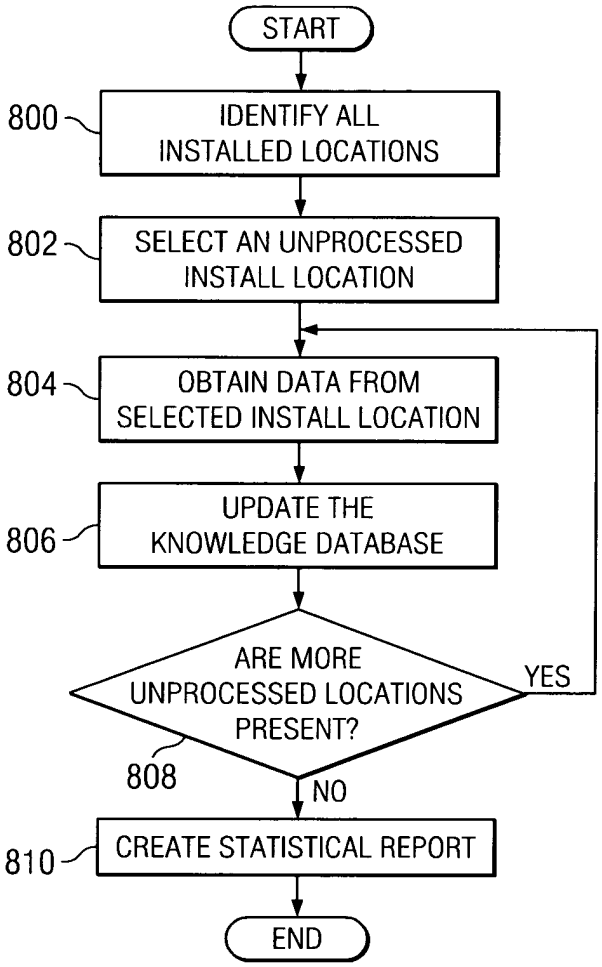
START
800
IDENTIFY ALL INSTALLED LOCATIONS
802
SELECT AN UNPROCESSED INSTALL LOCATION
804
OBTAIN DATA FROM SELECTED INSTALL LOCATION
806
UPDATE THE KNOWLEDGE DATABASE
ARE MORE UNPROCESSED LOCATIONS PRESENT?
YES
808
NO
810
CREATE STATISTICAL REPORT
END

FIG. 8